

## INTEGRATED FILTRATION AND DETECTION DEVICE

### Abstract

5 An integrated filtration and detection device for collecting and detecting the growth of microorganisms in a specimen includes a container defining a chamber therein. The container has an inlet and an outlet in fluid communication with the chamber. A filter is mounted in the chamber between the inlet and the outlet. A sensor is mounted in the chamber. The sensor is operative to exhibit a change in a measurable property thereof upon exposure to changes in the chamber due to microbial growth.